

ii.

5 6

chroot

LFS

가

cross-compilation()

LFS

가



LFS

()
LFS

가

가

- **Build**

- **Host**

- **Target**

가

A (“ ccA ”) (B) (B) 가
(C) C

Stage	Build	Host	Target	Action
1	A	A	B	A ccA cc1
2	A	B	C	A cc1 cc2
3	B	C	C	B cc2 ccC

B cc2 C . B

가 C C 가
 가 : . ccC

Stage	Build	Host	Target	Action
4	C	C	C	C ccC ccC

cc1 cc2
 ccA ccC

LFS

Autoconf-base autoconf-base cpu-vendor-kernel-os 가

OS “ ” 가 가
 (: x86_64-unknown-freebsd)

(Linux) Android CPU(ARM64)
 ARM64 Ubuntu

가 OS Android aarch64-unknown-
 linux-android Ubuntu aarch64-unknown-linux-gnu

“ ”

config.guess
 . binutils ./config.guess i686-pc-linux-gnu . 64
 32 x86_64-pc-linux-gnu가

gcc -dumpmachine

ld). glibc (binutils

32 Intel ld-linux.so.2 , 64 ld-
 linux-x86-64.so.2 가 :

readelf -I < glibc > | grep interpreter.
 shlib-versions

LFS 가 LFS_TGT
 "vendor" "lfs"
 -with-sysroot 6

가

Stage	Build	Host	Target	Action	
1	pc	pc	lfs	pc	cc-pc cc1
2	pc	lfs	lfs	pc	cc-1 cc-lfs
3	lfs	lfs	lfs	lfs	cc-lfs cc-lfs

"pc"

. lfs "

chroot

. C 가
 . glibc GNU C 가 ("musl")
). LFS , cc1
 . libgcc , 가
 . glibc " " C++ (libstdc++) glibc
 . cc1 libgcc , glibc (glibc
) libstdc++ libgcc
 . cc1 libgcc libstdc++ , 2
 C/C++ cc1 . 2
 cc-lfs 가 가 cc1 .
 • cc-lfs PC() . PC lfs
 (: musl) glibc-2.39 lfs libc
 • cc-lfs가 PC (: glibc-2.13) . PC PC
 cc-lfs

gcc 2 cc1 libgcc libstdc++ ,
 libstdc++ libgcc
 libstdc++가
 8 (" 3 ") LFS 가
 LFS

7 8 6 가 . 6

가 \$LFS/tools

Binutils가 gcc glibc **configure**

```
gcc glibc
가
가

Binutils $LFS/tools/bin $LFS/tools/$LFS_TGT/bin

. ld -verbose
-verbose | grep SEARCH ( $LFS_TGT-ld
lfs
$LFS_TGT-ld ld
).

gcc . configure :
```

```
checking what assembler to use... /mnt/lfs/tools/i686-lfs-linux-gnu/bin/as
checking what linker to use... /mnt/lfs/tools/i686-lfs-linux-gnu/bin/ld
```

```
gcc 가
PATH gcc
가 gcc가 $LFS_TGT-gcc -print-
prog-name=ld ( $LFS_TGT-
)
-v gcc
$LFS_TGT-gcc -v example.c( $LFS_TGT- )
gcc

Linux API C (glibc)가 Linux
glibc . glibc 가
$LFS_TGT-gcc) 가 -host ( :
.config config.make
가 ) CC="$LFS_TGT-gcc"($LFS_TGT
-nostdinc -isystem
glibc
C++ 가 , 6
DESTDIR LFS
6 DESTDIR
binutils-pass2가 gcc 가
gcc 가
CC_FOR_TARGET cc CC_FOR_TARGET=$LFS_TGT-
gcc가
7 가 가
```

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